



VALBRUNA
SLATER STAINLESS, INC.
 2400 Taylor Street West, P.O. Box 630
 Fort Wayne, Indiana USA 46801
 Phone: 260-434-2892 Fax: 260-434-2005

3"
 251433

Product Certification Report

Report Number: **4554420**

C024181

Certified on Jun 22, 2010 Page 1 of 1

Order I.D. 1001158 017		Order Date 4/26/10		Commodity Code			
Dim 1 3.0000	Dim 2 .0000	Dim 3 .0000	Heat I.D. 251433	Customer I.D. 002476	Customer Purchase Order 004002705		
Product Shape Rounds			Product Surface HR & Rough Turned			Customer Grade 316/316L	
Length (inches) 132.000 Min. 156.000 Max.			Em of Lading # 412286	Weight			

Ship To
 VALBRUNA CANADA LTD.
 8724 HOLGATE CRESCENT
 MILTON, ONTARIO L9T5Z1

Sold To
 VALBRUNA CANADA LTD.
 8724 HOLGATE CRESCENT
 MILTON, ONTARIO L9T5Z1

Lifts: 0044 0050 0051
 CONDITION A NACE MRO 175-05 ISO 15156 ASTMA 276-08a
 ASTMA 479-08 EN 10272

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.012	1.54	.026	.030	.60	16.81	10.02	2.06	.51	.08	.07

BRINELL HARDNESS ASTM E10-08
 HBW
 163

TENSILE PROPERTIES ASTM E8-08

TS (PSI)	.2%YS (PSI)	1%Y.S. (PSI)	%EL(2")	%EL(5d)	%RA
86600	45400	49900	60.9	51.1	80.3

MACRO ASTM E340-00/E381-01
 MACRO
 OK
 OK

GRAIN SIZE ASTM E112-96
 GRAIN SIZE Etchant Magnification X
 8 Oxalic 100

ASTMA 262-10 PR E (A Utilized)
 OXALIC Etchant Magnification X
 OK Oxalic 500

ASTM A 262-10 (Prac E)
 BEND TEST
 OK

Heated to 1900F min. and water quenched (heating time & temp appropriate for optimum quality).
 Chemical testing performed to one or more of the following ASTM methods: E415-08, E572-02a, E1019-08, E1085-95,
 Location of tensile fracture: inside middle of gage length.
 Chemical Analysis performed at Acciaierie Valbruna, Italy.
 No mercury or low melting alloy contamination. No weld repair.
 Material melted in Italy, manufactured in the United States.
 Material conforms to listed specifications and is DEARS compliant.
 Quality system is compliant with ISO 9001:2000. Produced in accordance with EN 10204 3.1.

Results relate only to the items tested. Certification shall not be reproduced except in full, without written approval of Valbruna Stainless Inc. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes, including Federal law, Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info. I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services *Dennis Hackett*
 Dennis Hackett